

Project Title:

Effluent Pipe Cleaning by Aqua Milling

(To be filled after joint discussion of stake holders, consolidate the comment from relevant stakeholder sheet)

PR / CMS References #:

REQ 25001200

Qualitative Analysis

(This technical evaluation is only valid for subject scope)

Sr#	Parameters		KANOOZ	LUMINOUS	REDA	SAUDI HYDRO DYNAMIC	Remarks
1	Scope Compliance		Meeting Scope Compliance.	Meeting Scope Compliance. Considered 20,000 PSI HP machine Queries sent for Clarification. But not received	Partially Meeting scope compliance. 1) Reda is in collaboration with ADI Industrial services Middle East. So Reda is dependent and do not have independent role for Scope of work. 2) Reda has only one Aqua milling equipment in KSA and if required other it will be mobilized from Bahrain.	Meeting Scope Compliance.	
2	Schedule Plan		Provided. 5 days required for cleaning.	Not provided. No confirmation for the required duration for Cleaning	Provided. Schedule do not project cleaning process clearly.	Not provided. Just confirmed with 3 shifts as duration in proposal and in post bid clarification provided below information Mobilization: 2 Days TA: Including opening of drain points, cleaning activities, and closing of drain points: 4 to 6 shifts. (3 days cleaning) Demobilization: 2 Days.	
3	Constructability Plan(Method statements in detail)		Provided. Generic	Provided. Generic	Provided. Generic	Provided. Generic	
4	Relevant work experience / Safety with Others		Provided.	Provided.	Provided. Experience provides as per ADI and not as per Reda. Looks like Reda has collaborated with ADI and doing this job first time. Also ADI experience showing only from 2022 in KSA	Provided.	
5	Relevant work experience / Safety with Schem		Experienced in scope specific Done Aqua Milling for Effluent line cleaning during TA 2018 and also performed Pipe line cleaning for TA 2022 SPCo SP.	Not worked in S-Chem	Not worked in S-Chem	Experienced in scope specific Worked in previous TA 2015, 2018, 2021, for HP jetting for EBSM C-3351 using 40K PSI HP machine.	
6	Manpower Loading Chart		Provided.	Provided. Request for increase in Hydro jetting Crew - 3nos. and Vacuum truck operator -1 Queries sent for Clarification. But not received	Provided. Manpower provided is less for each item in Manpower loading chart and compared to scope of work. Operators,Pipe fitters, Torquing crew etc.	Provided. Not provide Standby man and Rigger in proposal but only confirmed in Post bid Clarification query	
		Org. Chart	Provided	Not provided	Provided Which is as per the Reda company Org. and not as per scope specific	Provided	
7	Equipment Resources & Logistics		Provided.	Provided. Request for increase in Hydro jetting Machine 1no. and Vacuum truck 1no. Queries sent for Clarification. But not received	Provided. Equipment provided is less for each item in Equipment loading chart and compared to scope of work. Considered only 1 Aqua Milling Machine. 1 Vacuum truck, Torquing machine missing etc.	Provided. Torquing machine not provided	
8	QA/QC Plan		Provided. Generic	Not provided	Provided. Generic	Provided. Generic	
9	HSE plan/statistics		Zero LTI for last 3 years from 2020 to 2022	Not provided	Zero LTI for last 3 years from 2020 to 2022	Zero LTI for last 3 years from 2020 to 2022	
10	Documentation (Missing Information, Certifications, etc.)		NIL	1) Schedule Plan 2) Organization chart for scope of work 3) QA/QC document 4) HSE statics	NIL	NIL	
11	Subcontracted any service		No	No	ADI Industrial services Middle East.	Vacuum Truck sub contracted to Bridge	

Resource Loading Comparison/Evaluation Sheet							
Ref S#	Parameter	Details	KANOOZ	LUMINOUS	REDA	SAUDI HYDRO DYNAMIC	Remarks
Comments				Luminous considering supervisor as permit receiver			
6	Manpower Loading Chart	Total Count - Manpower Loading	60	31	25	42	
		Project Lead / Project manager / Site incharge			1	2	
		Supervisor/Site supervisor	2	2	2	2	
		QA/QC Engineers	2			2	
		Foreman	2	2			
		HP jetters	6	6			
		HP Operator	2				
		RHD Unit operator	4				
		Operator / HP pump operators			4	4	Saudi Hydro - HP pump operators
		Technicians				12	
		(Aquamilling/Metal/Torquing)			2		
		Mechanical Technician					
		Torquing Technicians	4				
		Permit Receiver	4		2	2	
		Standby man/Manhole watch	4				
		Fire watch			2		
		Flagman	4		2		
		Mechanic		2			
		Electrician	2		2		
		Driver(LD)	2		2	6	
		Helper / Labors	8		2	10	
		Pipe Fitter	6	12			
		Rigger Level 3	2	4			
		V/T Operator	4	1			
		Driver(HD)					
		O2 operator					
		Safety Officer	2	2	2	2	
Ref S#	Parameter	Details	KANOOZ	LUMINOUS	REDA	SAUDI HYDRO DYNAMIC	Remarks
Comments							
7	Logistics & Equipment Resources	Total Count- Equipment Loadline	18	7	22	10	
		Skip-20ft		2			
		Holding Tank 25 M³	2				
		Catch basin				4	
		Air compressor		1		1	
		Air Compressor 375 CFM	1				
		Air Compressor 350 CFM			2		Reda - Air compressor 350 cfm with 30 mtr hose and manifold
		Stepdown Tranformer	1				
		Diesel Generator-150 KW / 50 KVA	1		2		Reda- 50 KVA
		High pressure Hose				As required	
		High pressure Flexible Hose				As required	
		Water Pump / Aqua milling 600 HP water pump	1		1		Reda- Aqua milling 600 HP water pump mobile unit
		High volume high pressure pump				2	
		Diaphragm Pump	1				
		Vacuum Truck / super sucker	2	1	1	2	
		Trailer / Flat bed trailer			1		Reda- Flat bed trailer
		Dyna Truck	1				
		tool container 20 ft			1	1	
		Hydro jetting unit	2	1			
		Pipeline internal cleaning system				2 set	
		Aquamilling RHD Unit / Special line cleaning rotating nozzles	2	1		As required	saudi hydro - Special line cleaning rotating nozzles Luminous mentioned Aquamilling equipment
		Twister				1	
		Hydraulic Feeder				1	
		Aqua milling Cleaning Heads				Lot	
		Torqueing Tools	Set				
		Lifting tools	Set				
		Mechanical tools				2 set	
		Air movers	2				
		Tool Box / Wheel tool Box		1			
		Portable tools container	1				
		Mini Bus (28 seater)				1	
		Diesel tanker	1			2	Reda - 6000 ltr
		First Aid box					
		Pick-up				1	
		Gas monitor				8	Reda - S-Chem shall provide Gas monitors
		safety gear					As required
		Site office					